

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Kiesewetter et al.

Group Art Unit: Unassigned

Application No. 09/646,651

Examiner: Unassigned

Filed: September 13, 2000

For: METAL-CONTAINING
RIBONUCLEOTIDE POLYPEPTIDES

PENDING CLAIMS AS OF OCTOBER 4, 2000

12. A metal-containing ribonucleotide protein (RPN) containing a protein from the family of S100 proteins, an RNA and copper as metal ion in the form of a ternary complex, characterized in that the RNA of the ternary complex has the following sequences:

(a1) ARNA I

Klon-3a (ARNA I)

AAAAAAAAAGGUUUUCAUGCGUGCUCACAGAUCAGCUCUUUCUGG
AUUGAAAAGCUAAGCACAGAACAUUGGGAAAAUCCUUUCAUAUGGCUG
UGUUUACAAACAAAAAGUAUAAACAUCUUGAGCAAACAGAAAUGGUGA
GGAAAACUUUGUUAGCAGAUUAG [SEQ ID NO:3]

or

(a2) ARNA VI

Klon-P10 (ARNA VI)

UUACAGCUCUUCUGUUUAUAAGUUAUUCAAUACCAAAUUAGUAG
UUUGUAUGUUAUAAAUUUGUAGGAAAAUAAUUAUAUAUGCUUACUUU
GUACAUAAAAAUA AAAACAUGACUUCUUUAGACACUCCUUCAUUAGAA
AUAAAAUAAAAUAAACUAUUAGCAGUUUGACUUCAUGUUCUGUCUGUA
GGUCAUGGAAUCCUGUCCUUACAAUAUUUAUUGAUUGUGAAAAUAUCA
GUAAAUAAGCAAUUGAAUAUGUUUACCUUUUCUUCUAGUCACUAUGUU
CUUAGAGUUAUGACA [SEQ ID NO:4]

13. A process for producing a metal-containing ribonucleotide protein (RPN) according to claim 1, characterized in that leucocytes or inflammation tissue is homogenized or leucocytes are cultivated and the resulting RNP is recovered from the homogenates or from the supernatant of the culture solution by standard methods.

14. A use of the metal-containing ribonucleotide protein (RPN) according to claim 1 and/or molecular-biological equivalent structures and/or fragments and/or derivatives for producing a medicament for specifically influencing angiogenesis.